

ABSTRACT OF THE DISCLOSURE

A protective system or apparatus for use in vascular procedures includes a tubular guidewire, a control cable slidable within the tubular guidewire, and a sheathless filter. The control cable is attached to a distal end of the sheathless filter and the tubular guidewire is attached to a proximal end of the sheathless filter. Selective displacement of the control cable radially expands the sheathless filter to create a proximal exterior convex primary filter surface that is positionable downstream from a site of a vascular procedure. The sheathless filter also presents a distal interior concave secondary filter surface. Preferably, the sheathless filter is constructed of a braided wire framework in the form of a tube over which woven polymer fibers or strands are applied to create a filter mesh having a softer filter surface.

**PROTECTIVE SYSTEM OR APPARATUS
INCLUDING GUIDEWIRE HAVING DEPLOYABLE
SHEATHLESS FILTER AND METHOD UTILIZING SAME**

PARTS LIST

20	protective system or apparatus	62	sleeve
30	tubular guidewire	63	stainless steel core
32	proximal end	64	wire elements
34	distal end	66	stop
38	control cable	68	stop
40	short tube	70	clamp
44	distal end	96	projection
46	gripping region		
48	proximal end		
49	distal end		
50	sheathless filter		
52	proximal end		
54	distal end		
56	braided wire framework		
58	filter mesh		
60	flexible guidewire tip		
60a	flexible guidewire tip		
61	platinum coil		